

Map Intelligence Client

QlikView Installation Guide

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GETTING STARTED

This is a guide for installing the *Map Intelligence Client – QlikView 11 SR2*.

BEFORE BEGINNING THE INSTALLATION

Ensure that the following is set up and available before installing the *MI Client for QlikView*.

- Verify that there is ample local disk space present (approximately 42 Mb is required).
- Verify that the following applications are installed on the target machine:
 - Windows system (Windows Server 2008 and Windows 7)
 - Internet Explorer 6.0 or higher
 - QlikView 11.2
 - Java Development Kit (JDK) 1.5 or higher
 - Internet Information Services(IIS) 6.0 or higher

For IIS 7.0 and higher make sure that the IIS 6 management compatibility is activated

- Create a temp directory for MI Client for QlikView(e.g. c:\Temp)

If the temp folder (e.g. c:\temp) is on MI Client for QlikView, the user which started the QlikView Server should have full access to the temp folder.

And if the temp folder (e.g. \\QVServer\temp) is on QlikView Server, then the MI Client for QlikView user should have full access to the temp folder.

- .Net Framework 4

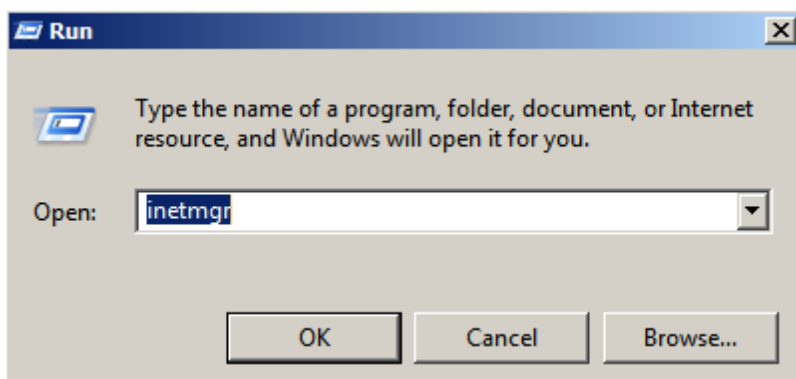
INSTALLING THE MI QLIKVIEW SERVICE

This section will guide you in installing the web service that will be utilized by the *MI Client for QlikView*. This web service will bridge the *MI Client for QlikView* and the *QlikView Server*. This web service should be installed on the same machine where you will be installing the *MI Client for QlikView*.

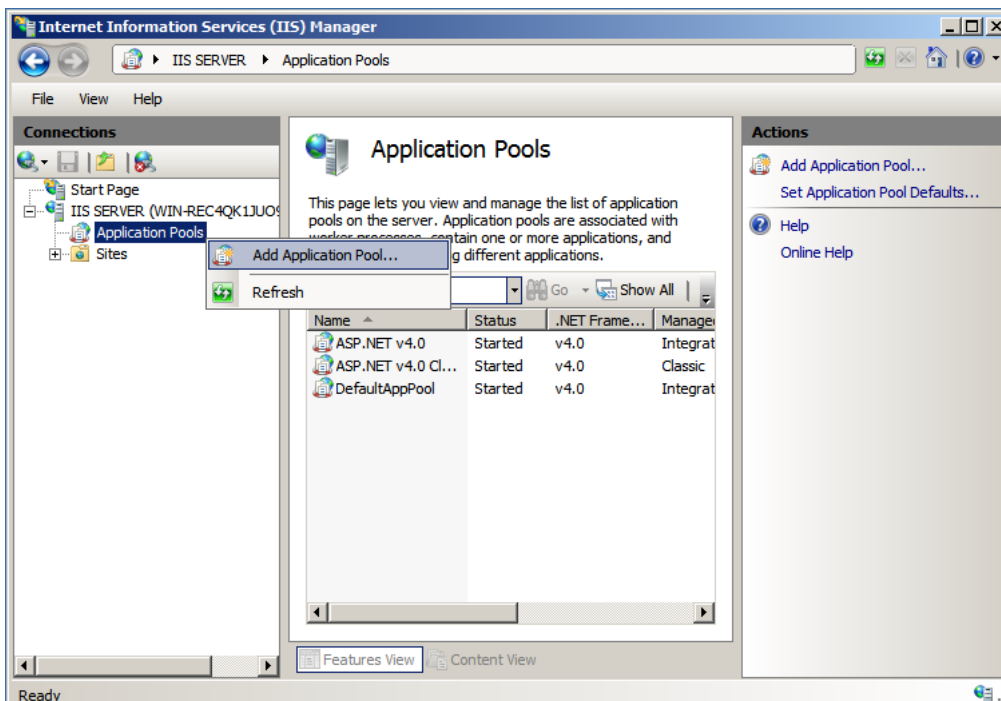
CREATING A DEDICATED APPLICATION POOL

This section will help you create a dedicated application pool for the *MI Client for QlikView Web Service*. It is assumed here that IIS 7.0 or higher and .Net Framework 4 is already installed on the target machine where you will be installing the *MI Client for QlikView*. To configure the Application Pool:

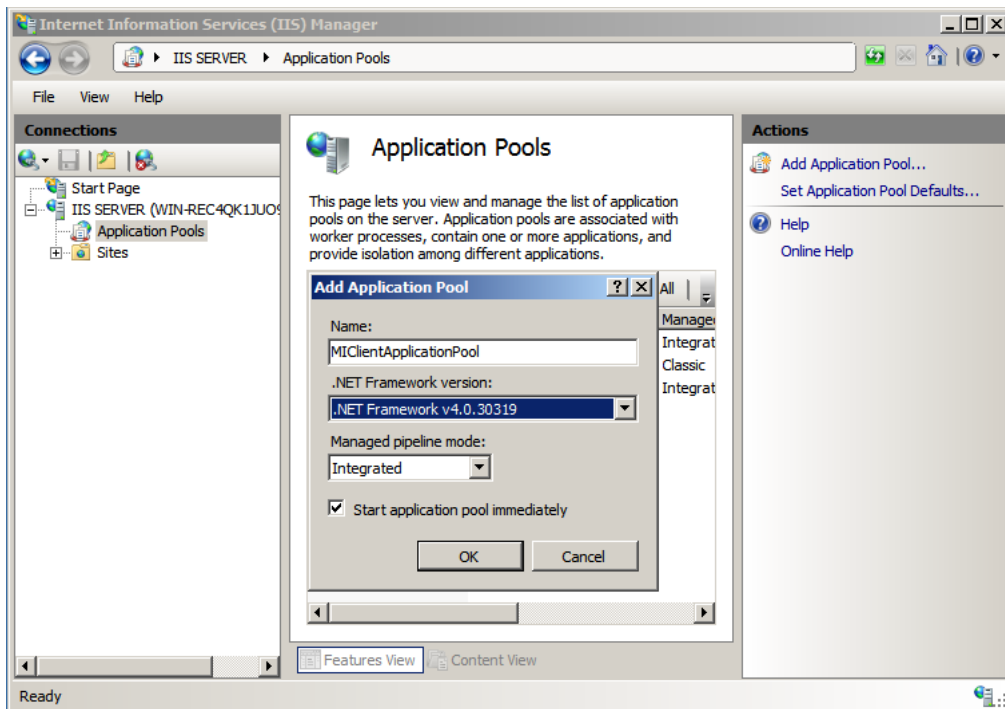
1. Go to the IIS Manager, by typing **inetmgr** on the Run prompt of Windows then hit **Enter** key. If you receive an error upon issuing the **inetmgr**, please check if IIS is properly installed on the target machine.



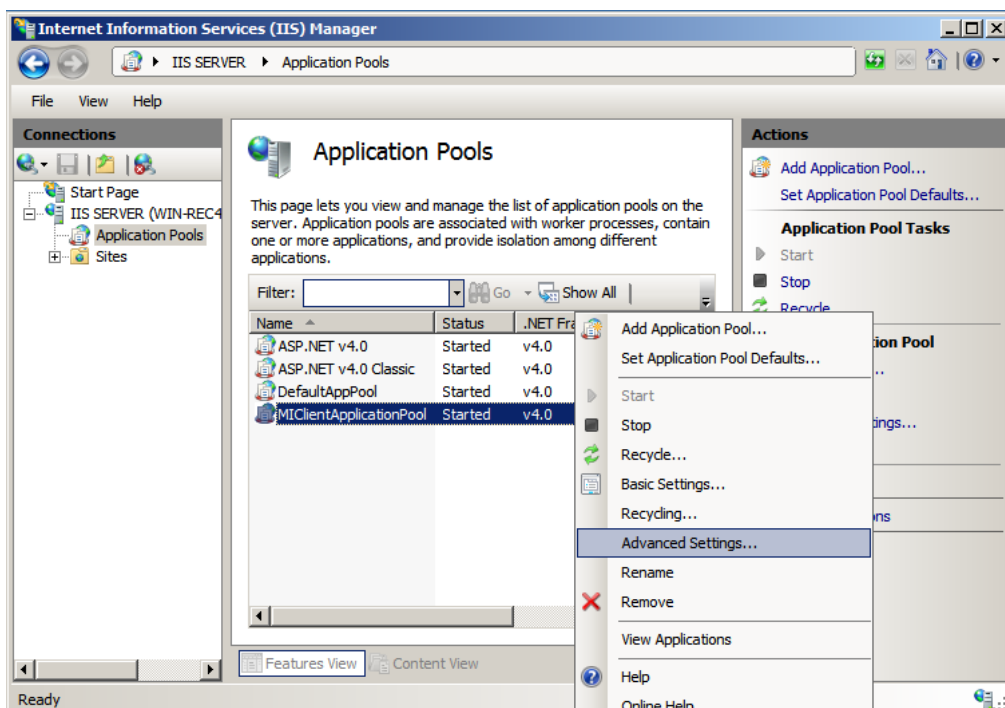
2. On the *IIS Manager Window*, expand the IIS Server then click the **Application Pools**. On the *Action Panel*, click the **Add Application Pool**.



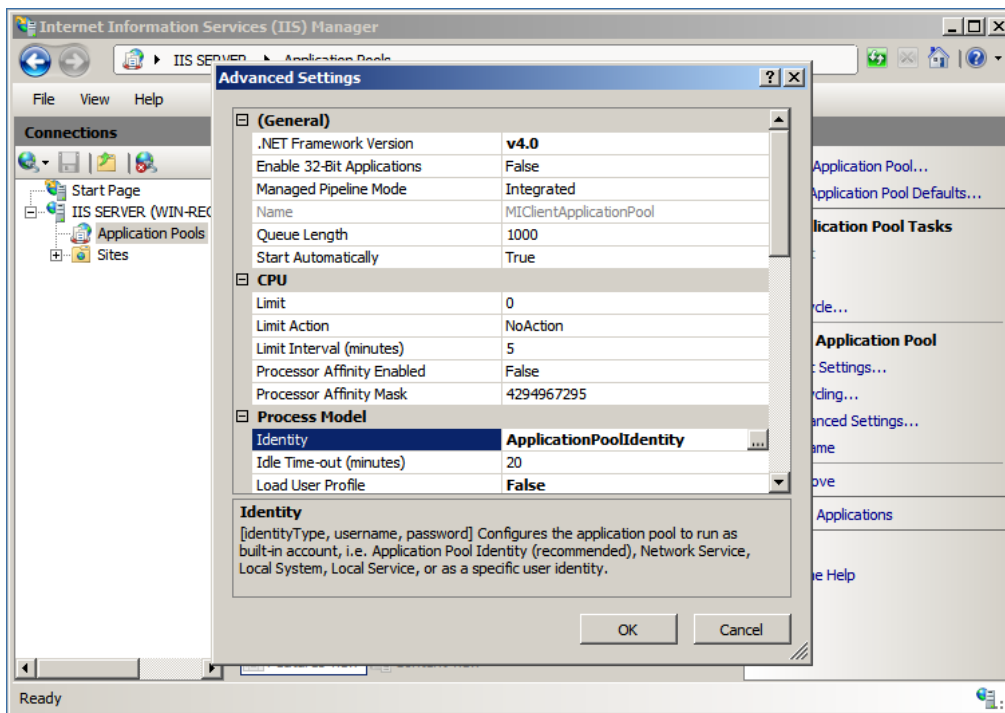
- On the *Add Application Pool Window*, enter the preferred name for the application pool and make sure it uses .Net Framework 4. Click **Ok** to save the Application Pool.



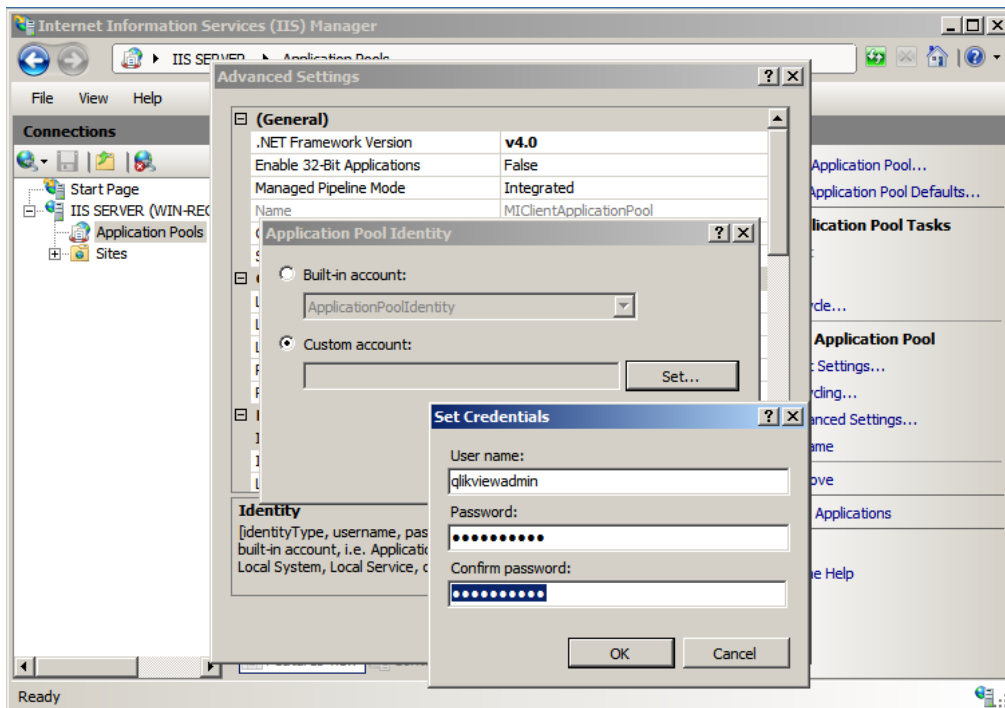
- On the *Application Pool List*, right click on the newly created application pool and select the **Advance Settings**. *Advance Settings Window* displays.



5. From the *Advance Settings Window*, locate the **Identity** property then click the ellipses beside the value.



6. On the *Application Pool Identity Window*, select the **Custom account** then click the **Set** button. Enter a valid user credential then click **Ok**.



On the *Set Credentials window*, enter here the credential of the QlikView user who started/installed the QlikView Server's services.

STEP BY STEP INSTALLATION OF MI CLIENT FOR QLIKVIEW WEB SERVICE

This will guide you in installing the MI Client for QlikView Web Service. If your installing this on a 64-bit machine run the installer as Administrator. To install the Web Service:

1. From the Map Intelligence download centre, locate and run the MI Client for QlikView Web Service installer. The *Welcome screen* of the *Setup wizard* displays.

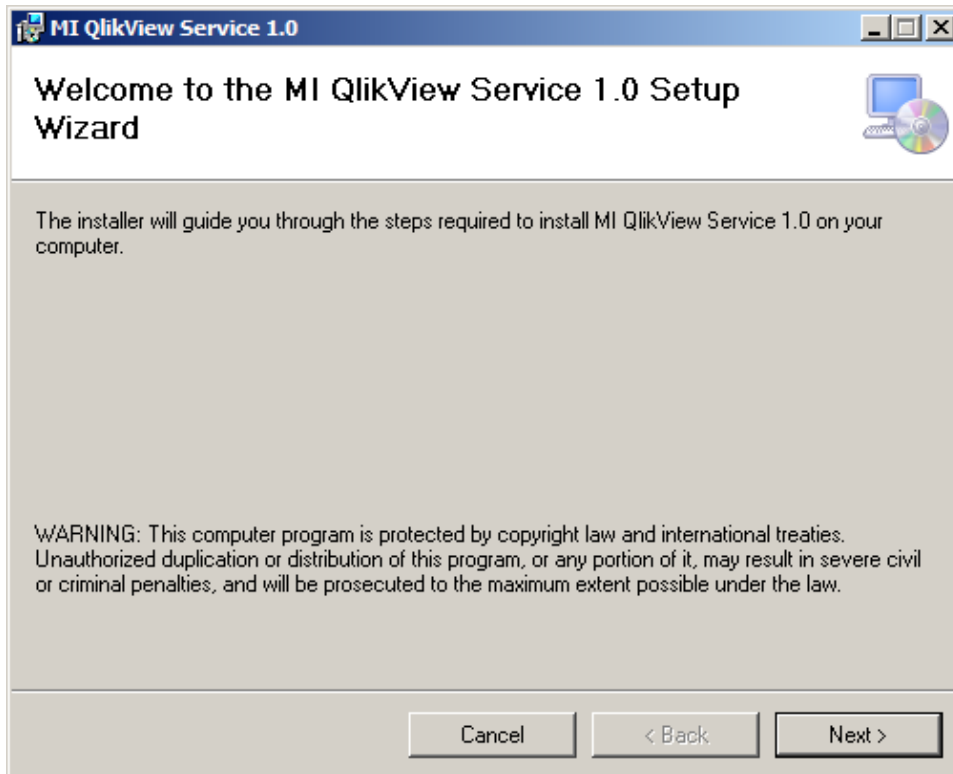
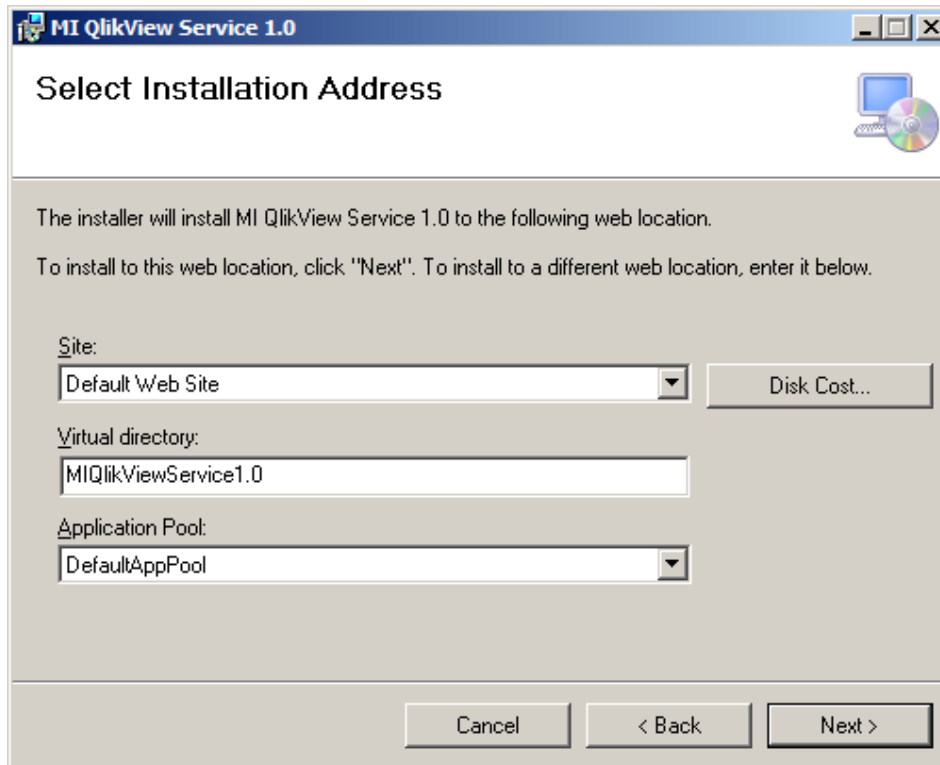


Figure 1. Setup Wizard - Welcome screen.

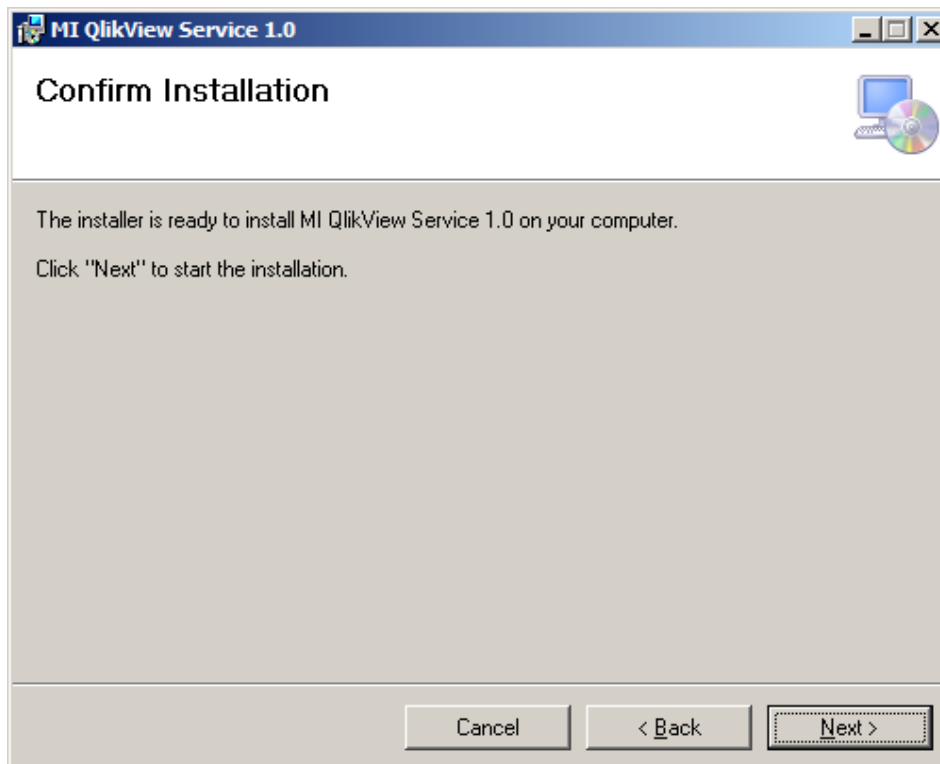
2. Click the **Next** button to continue. The *Installation Address screen* of the *Setup wizard* displays. Type your preferred virtual directory name on the **Virtual Directory** field. On the **Application Pool** field, select the application pool you created on the [earlier pages](#).



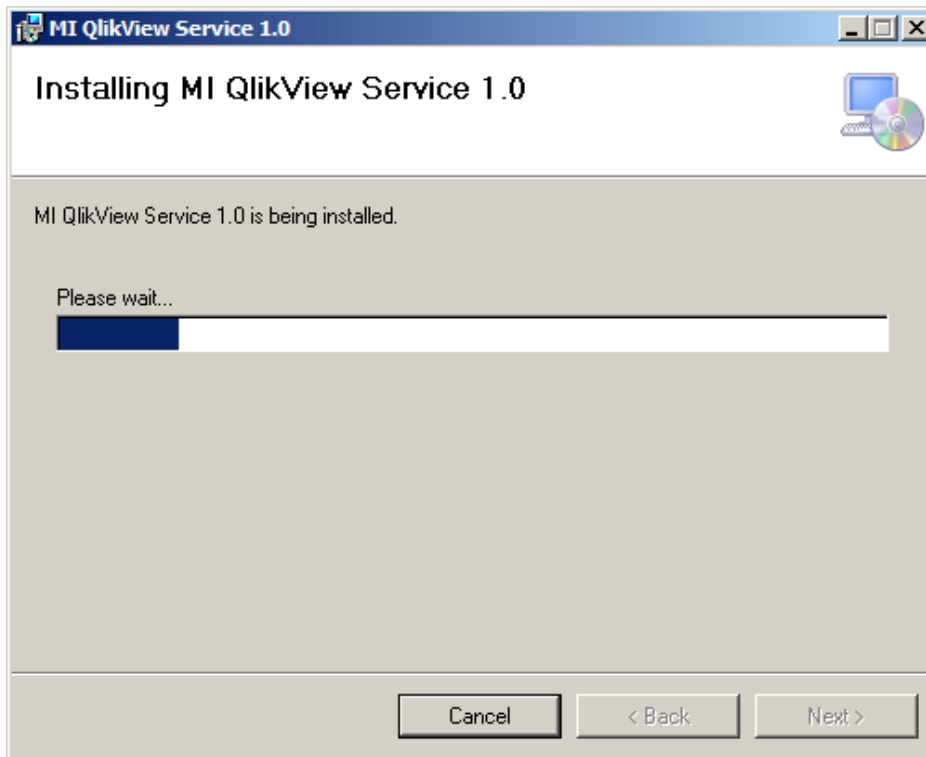
The value of the **Virtual Directory** field will be used at some point during the installation of the *MI Client for QlikView*.



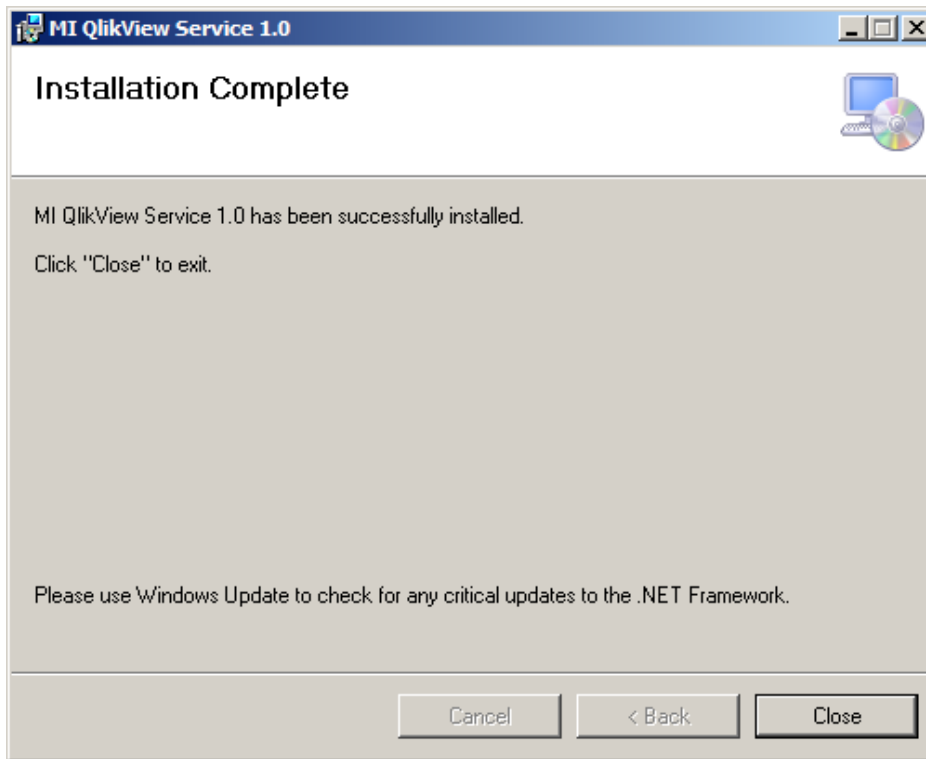
3. Click the **Next** button to continue. The *Confirm Installation* screen of the Setup wizard displays.



4. Click **Next** button to continue. The *Installation Progress* screen of the *Setup wizard* displays.




5. Please wait until the installation is completed. Click the **Close** button to exit.



VERIFYING THE MI CLIENT FOR QLIKVIEW WEB SERVICE

This will guide you in verifying if the MI Client for QlikView Web Service is installed correctly on the target machine. To verify the Web Service:

1. Launch a web browser, access the web service URL : <http://<hostname>/<virtual directory name>/Service.svc>. The Service page displays.



Service Service

You have created a service.

To test this service, you will need to create a client and use it to call the service. You can do this using the svcutil.exe tool from the command line with the following syntax:

```
svcutil.exe http://qlikview112-sr2/MIQlikViewService1.0/Service.svc?wsdl
```

This will generate a configuration file and a code file that contains the client class. Add the two files to your client application and use the generated client class to call the Service. For example:

C#

```
class Test
{
    static void Main()
    {
        ServiceClient client = new ServiceClient();

        // Use the 'client' variable to call operations on the service.

        // Always close the client.
        client.Close();
    }
}
```

Visual Basic

```
Class Test
    Shared Sub Main()
        Dim client As ServiceClient = New ServiceClient()
        ' Use the 'client' variable to call operations on the service.

        ' Always close the client.
        client.Close()
    End Sub
End Class
```



- **<hostname>** - is the hostname or the IP address where you installed the *MI Client for QlikView Web Service*.
- **<virtual directory name>** - is the value of **Virtual Directory** field you set during the installation of *MI Client for QlikView Web Service*.

INSTALLING THE MI CLIENT FOR QLIKVIEW

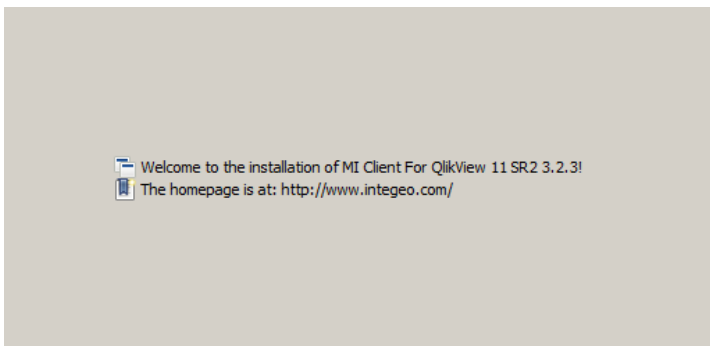
STEP BY STEP INSTALLATION OF MI CLIENT FOR QLIKVIEW

This section will guide you in installing the *MI Client for QlikView*. It is assumed here that the [MI QlikView Service](#) has been installed and verified that is up and running. The QlikView Temp Directory must have been created, if not please follow the guide (see [Before Beginning the Installation](#)) it creating it.

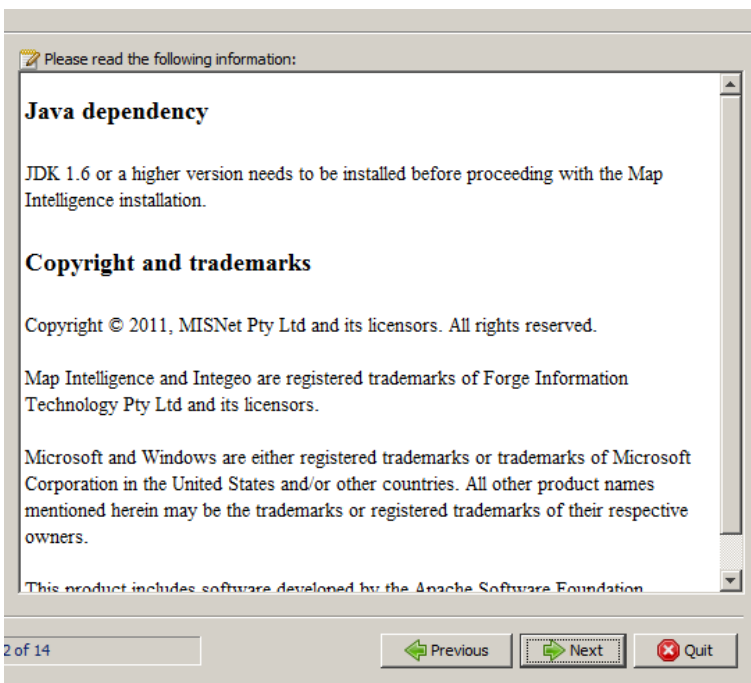
If the target machine is using Windows 2008 Server, Windows 7 or higher on 64-bit platform it is required to run the installer as an administrator to prevent any access permission issue.

To install the MI Client for QlikView, follow the instructions below:

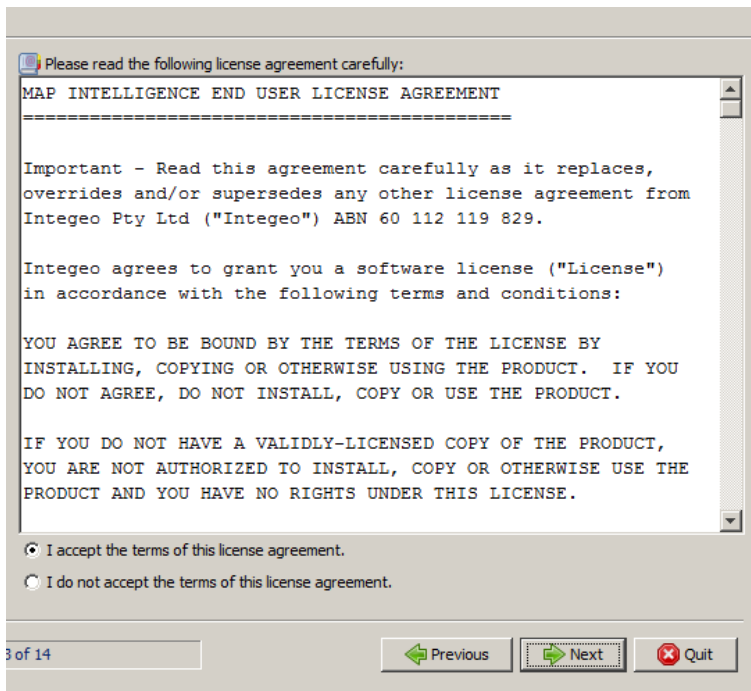
1. From the *Map Intelligence Installation Menu*, click **miclient_3.2.3_qlikview_11_sr2-pr.exe/.jar**. The Welcome screen of the installation wizard displays.



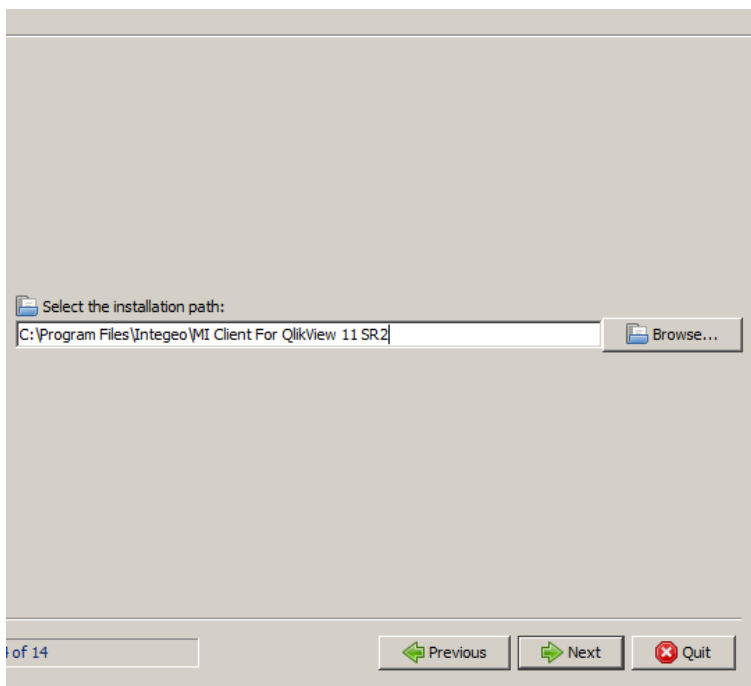
2. Click the **Next** button to continue. The information on dependencies, copyright and trademarks displays. Read this thoroughly and ensure that you have the prerequisites.



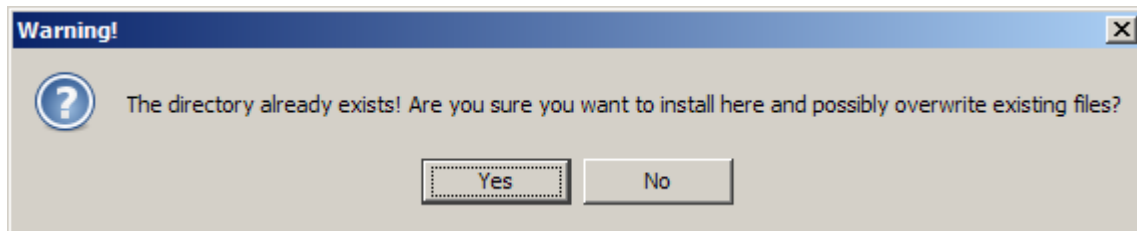
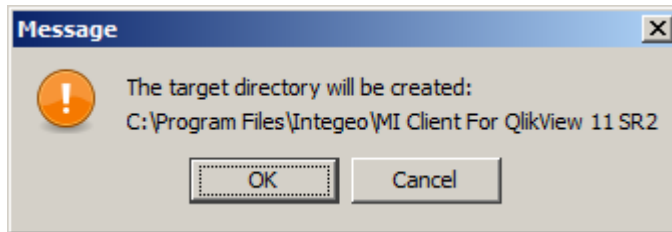
- Click the **Next** button to continue. The *Licensing Agreements* screen displays. It is important that you read and understand the terms and conditions of the license agreement and that you are suitably authorized to accept its terms.



- Click the **I accept the terms of this license agreement** radio button to accept the terms of the license agreement and click the **Next** button. The *Target Path* screen displays showing the default installation path.



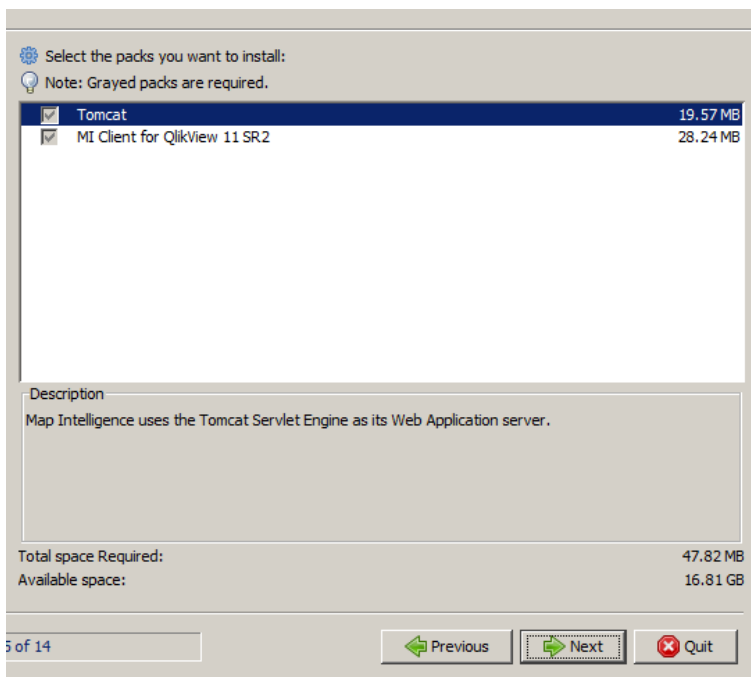
5. To change the installation path, click the **Browse** button to change and select other installation path or use the default installation path. Click the **Next** button and depending on the installation path specified it will prompt you that the installation path will be created or overwritten. The *Message box* displays.



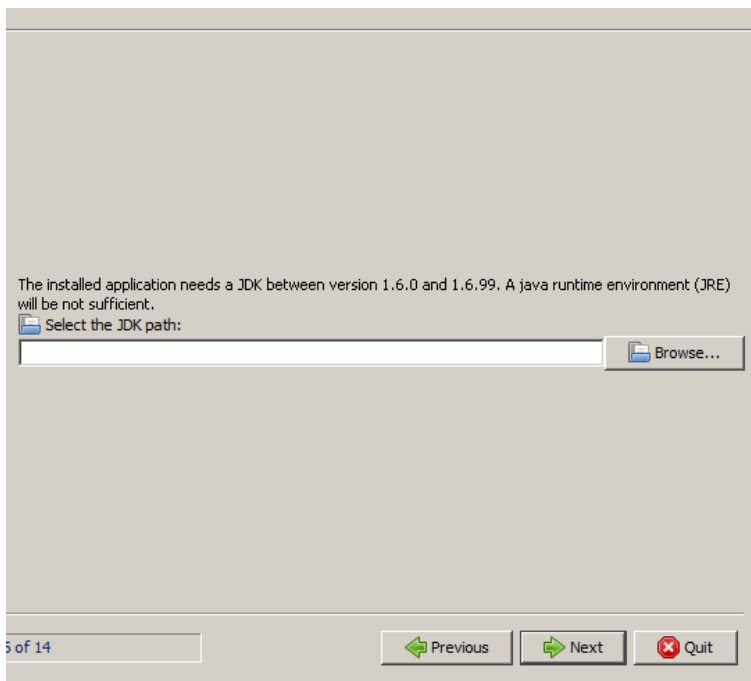
Note

- If you change the default installation path, ensure that the path entered does not contain trailing spaces. This can cause problems in a Windows environment, where such names are invalid.
- If a message box appears stating that the directory already exists, you should select another directory. Otherwise, the files in the current location will be overwritten

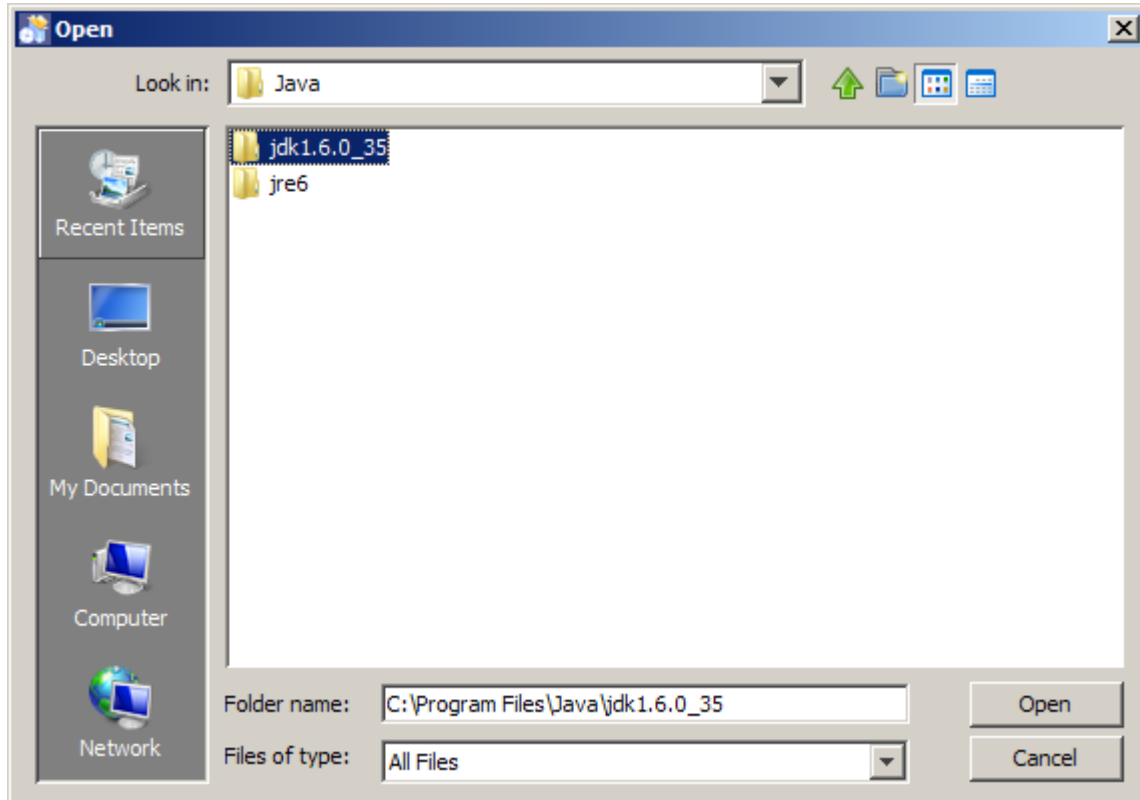
6. Click the **Ok/Yes** button to proceed. The *Select Installation Packages* screen displays.

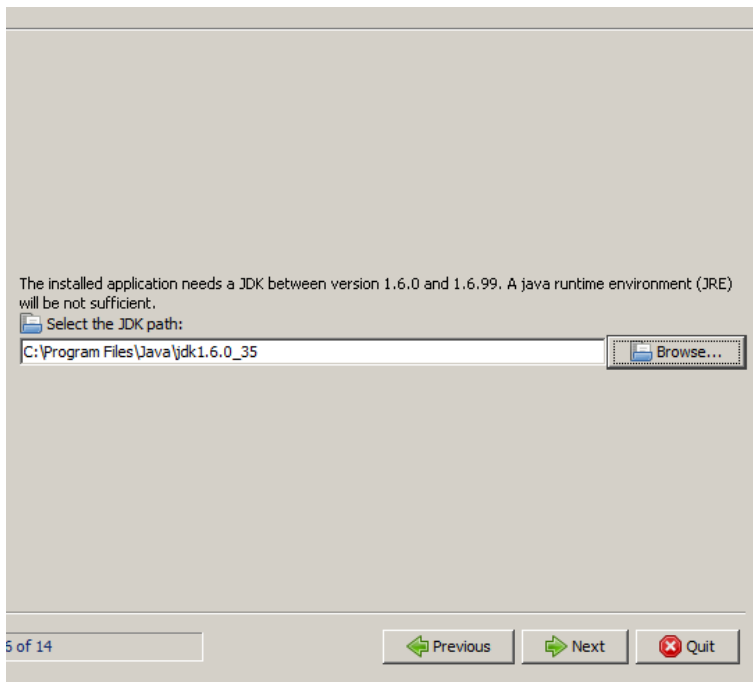


- Click the **Next** button to proceed. The *JDK Path* screen displays.

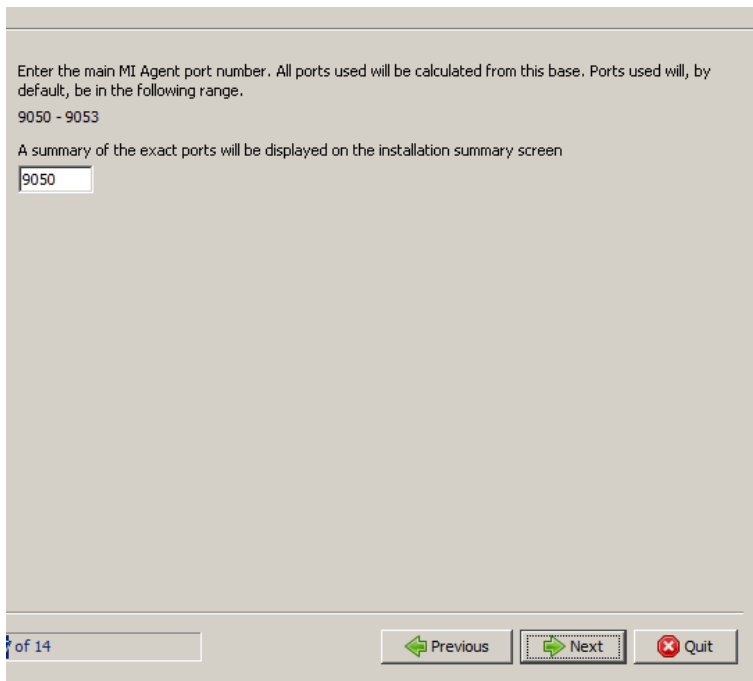


- Click the **Browse** button to navigate and select the JDK directory. Click **Open** button to append the path on the **JDK path** field.

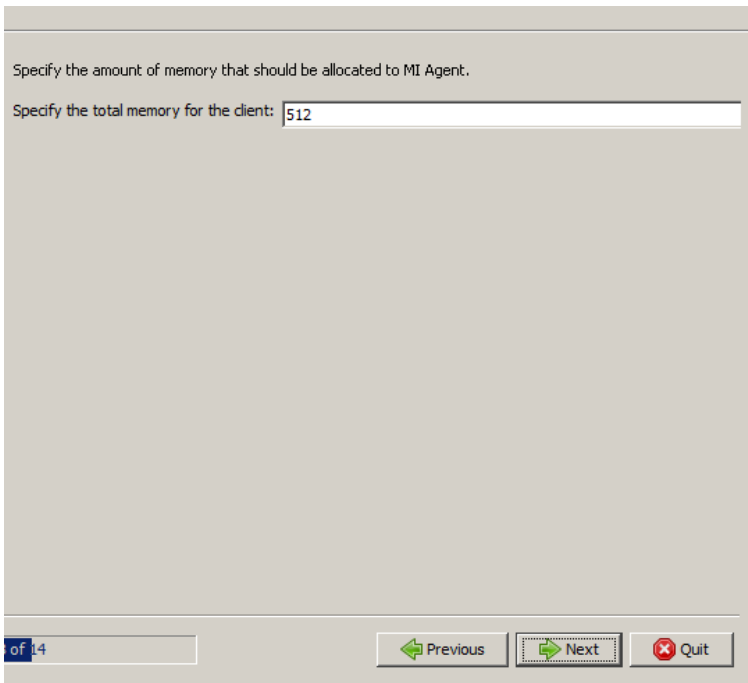




9. Click the **Next** button to continue. The *Port Settings* displays.



10. Click the **Next** button if using the default **Ports** settings. The *Memory Allocation Settings* displays.



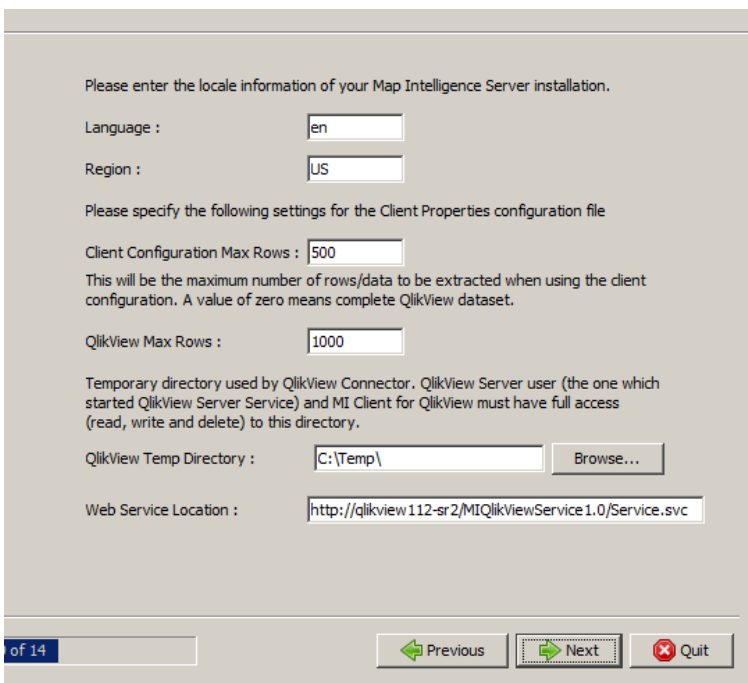
Specify the amount of memory that should be allocated to MI Agent.

Specify the total memory for the client:

of 14

Previous Next Quit

11. Click the **Next** button if using the default **total memory** settings. The *Client Properties Settings* displays.



Please enter the locale information of your Map Intelligence Server installation.

Language :

Region :

Please specify the following settings for the Client Properties configuration file

Client Configuration Max Rows :
This will be the maximum number of rows/data to be extracted when using the client configuration. A value of zero means complete QlikView dataset.

QlikView Max Rows :

Temporary directory used by QlikView Connector. QlikView Server user (the one which started QlikView Server Service) and MI Client for QlikView must have full access (read, write and delete) to this directory.

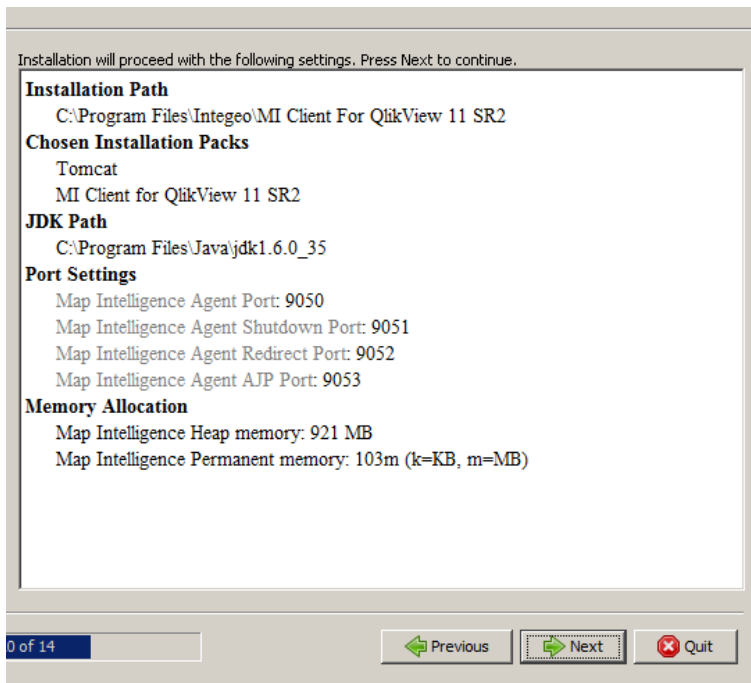
QlikView Temp Directory : Browse...

Web Service Location :

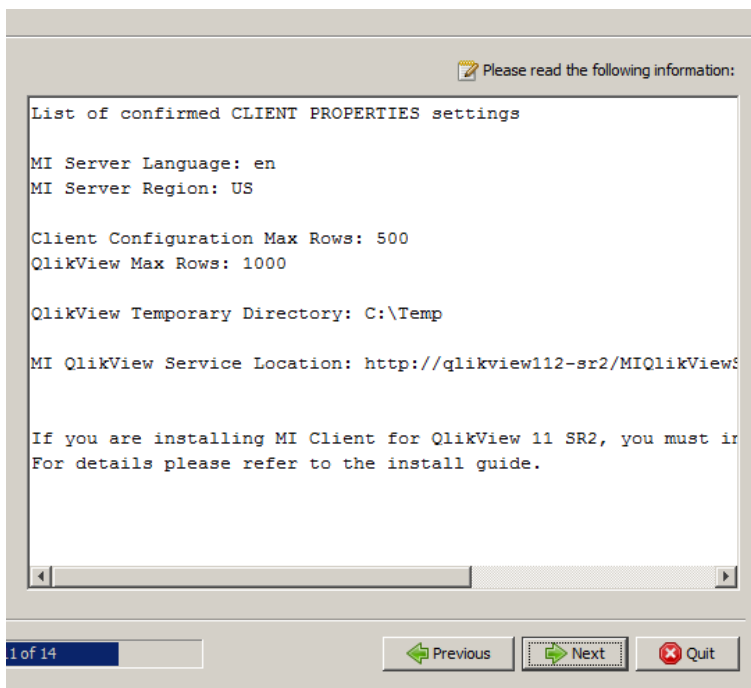
of 14

Previous Next Quit

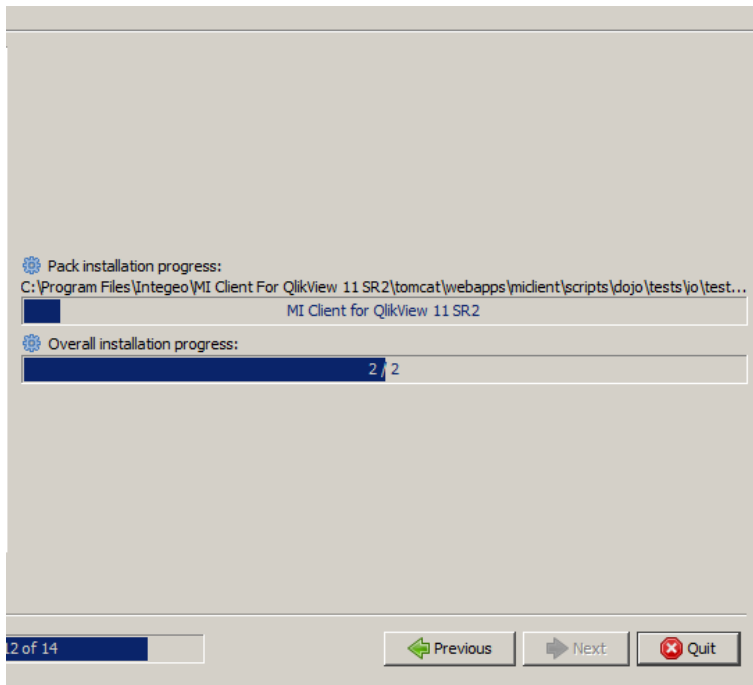
12. Click the **Next** if using the default **Language, Region, Client Configuration Max Rows, QlikView Max Rows, QlikView Temp Directory** settings and set **Web Service Location** to the [web service URL](#). The *Summary Settings* displays.



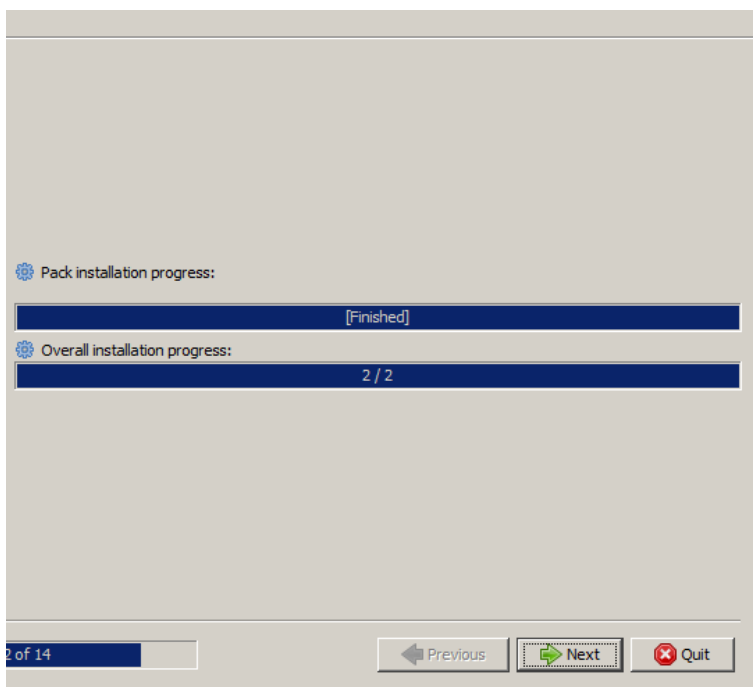
13. Click the **Next** to proceed. The *Client Properties Summary* displays.



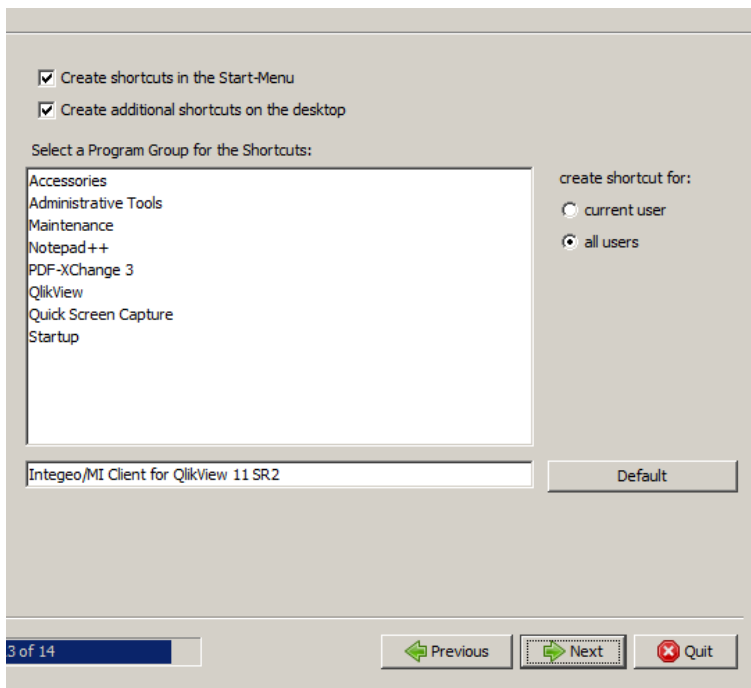
14. Review the server and client properties configuration and click the **Next** button. The *Installation Progress* displays.



15. Briefly wait until the pack installation progress indicates “[Finished]” and the overall installation progress indicates “2/2”.



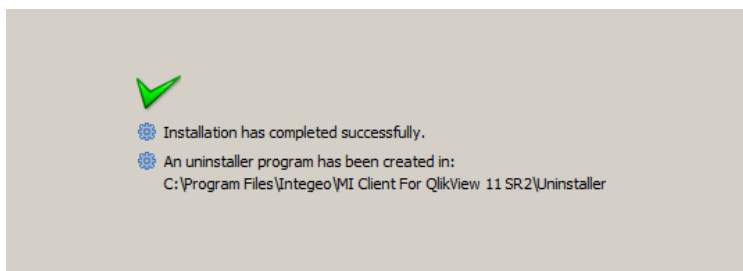
16. Click the **Next** button to continue. The *Setup Shortcuts* screen displays.



Note

- ✓ To create a Start Menu link, tick the **Create shortcuts in the Start Menu** checkbox.
- ✓ To change the Program Group for the shortcut, click on any item on the list provided. In case you selected a Program Group and you want to revert it to default group, click the **Default** button.
- ✓ Set the accessibility of the shortcut to either **current user** or **all users**.
 - **current user** - shortcut is only available to the user who is currently installing the MI Client.
 - **all users** - shortcut will be available to all the users who has access to the target server

17. Click the **Next** button to continue. The *Installation Finished* screen displays confirming the success of the MI Client installation.



18. Click the **Done** button to close.

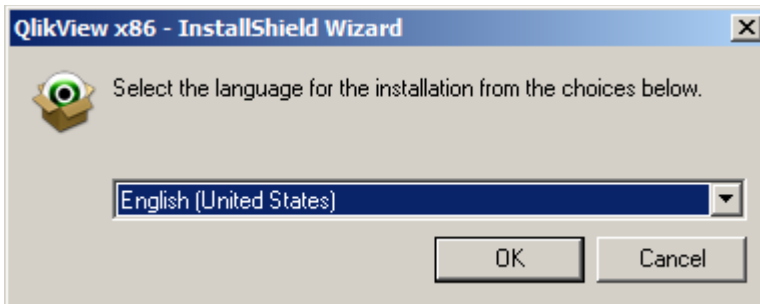
INSTALLING THE MI CLIENT MAP VIEWER

This section will guide you in installing the *MI Client Map Viewer*. The Map Viewer is a custom extension object to display a *Mapping Viewer* within the QlikView document.

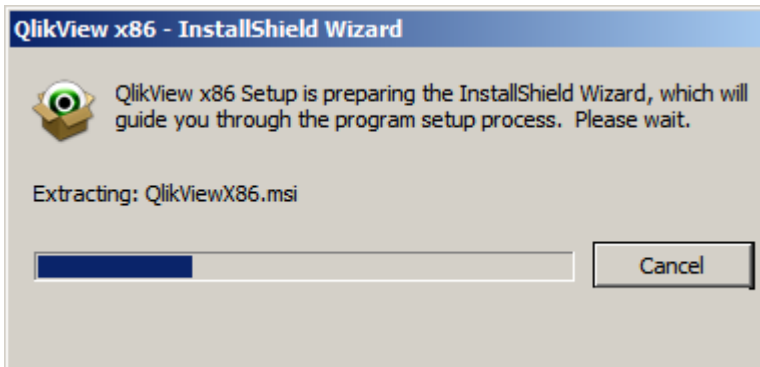
INSTALLING THE QLIKVIEW DESKTOP

This section will guide you to install the QlikView Desktop on the QlikView Server. The QlikView Desktop is required since this is the one that contains the web page viewer control. If the QlikView Desktop is already installed on the QlikView Server you may skip this section. To install the QlikView Desktop:

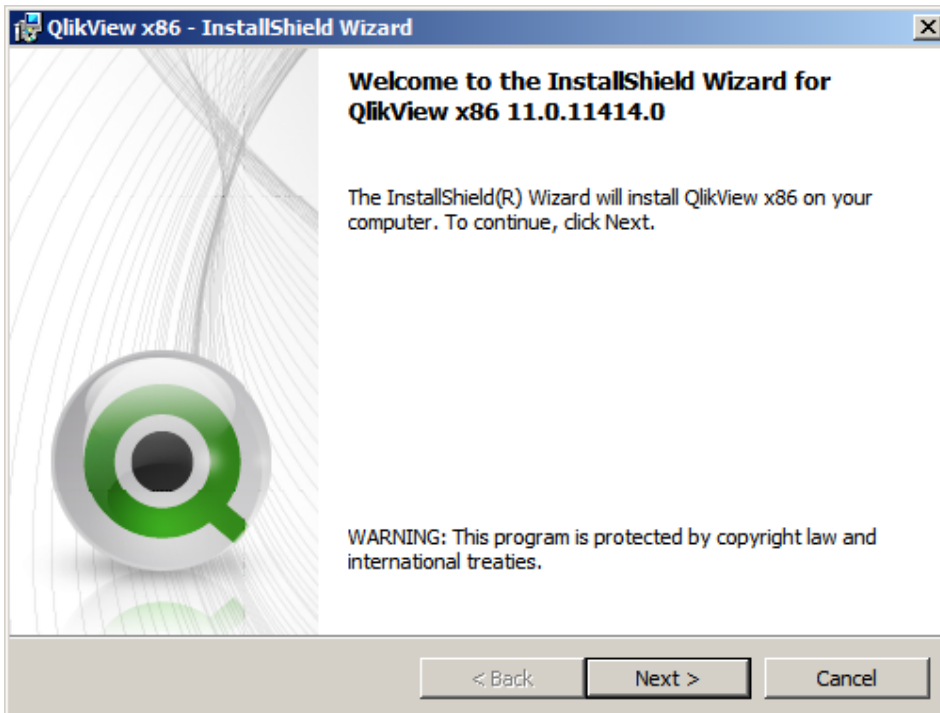
1. From the *QlikView Server*, locate the QlikView Desktop installer and run it as administrator. For older operating system like Windows Server 2003 or older, no need to run it as administrator. QlikView Desktop installer can be downloaded on www.qlikview.com/download. The *Language setting* dialog displays



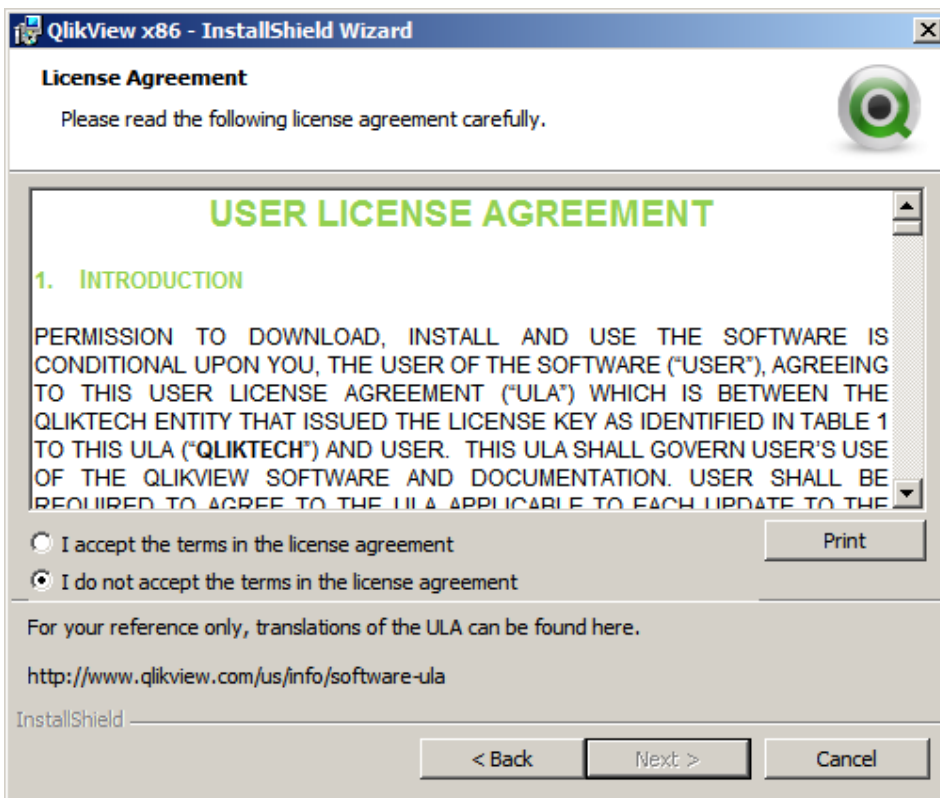
2. Select the desired installation language from the dropdown then click **OK**. The *Preparation* dialog displays.



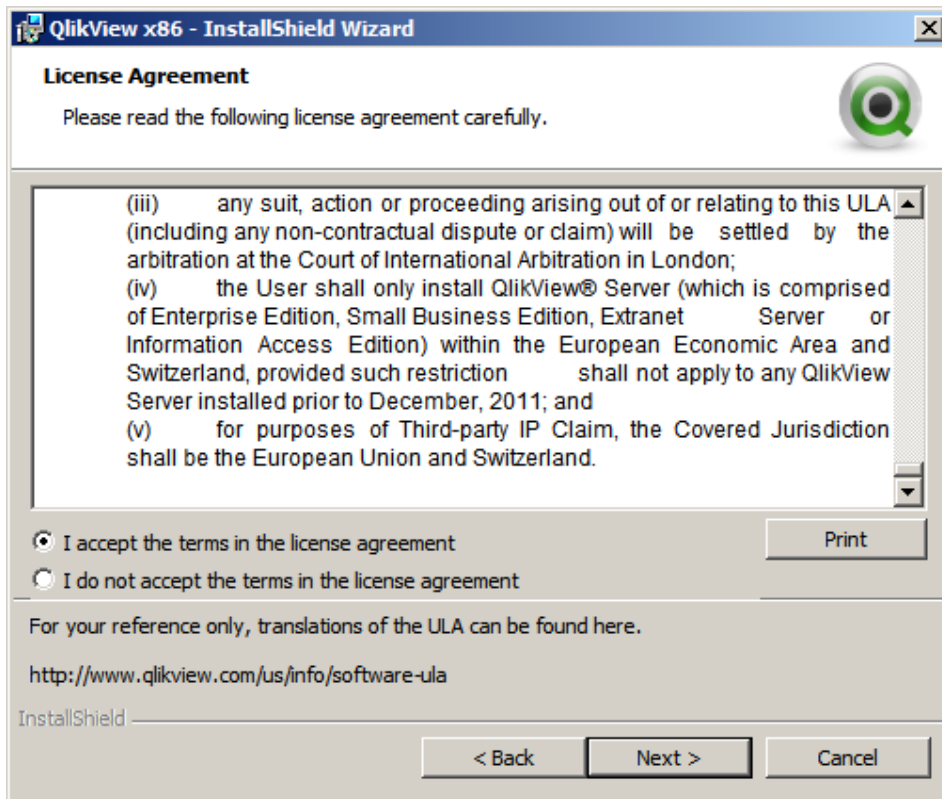
3. Wait until the installation is prepared. The *Welcome* dialog displays.



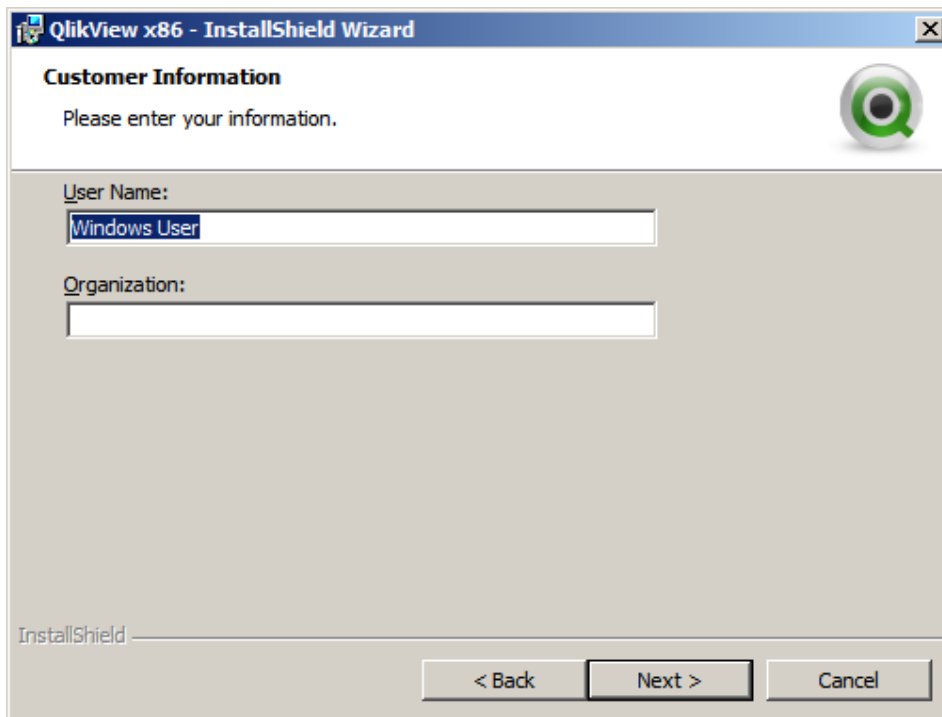
4. Click **Next** to continue. The *License Agreement* dialog displays.



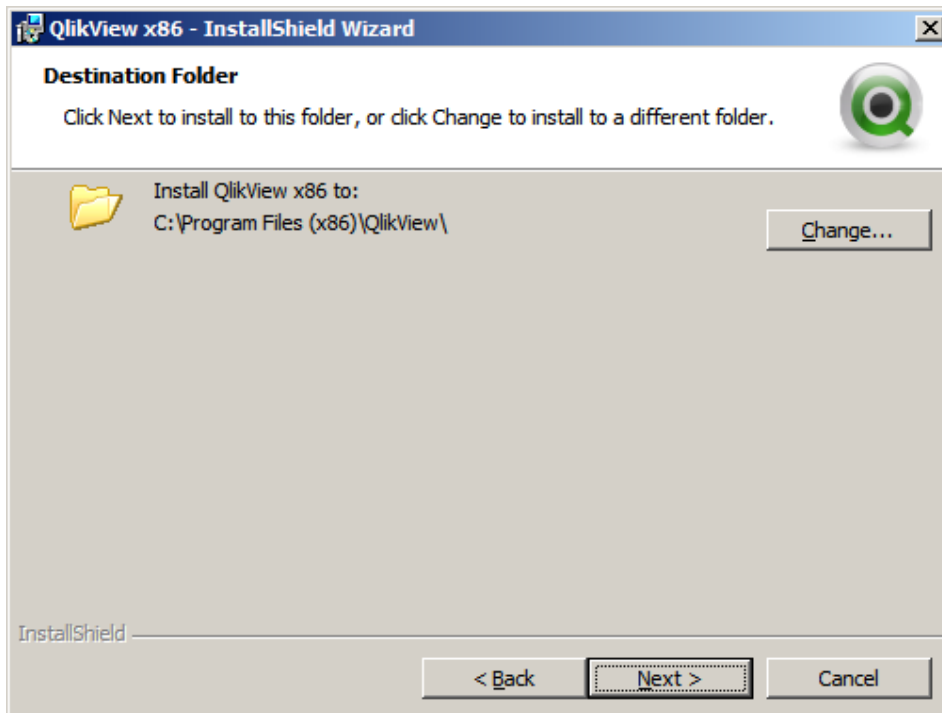
5. Read the software license agreement and click **I accept the license agreement** (if this is the case).



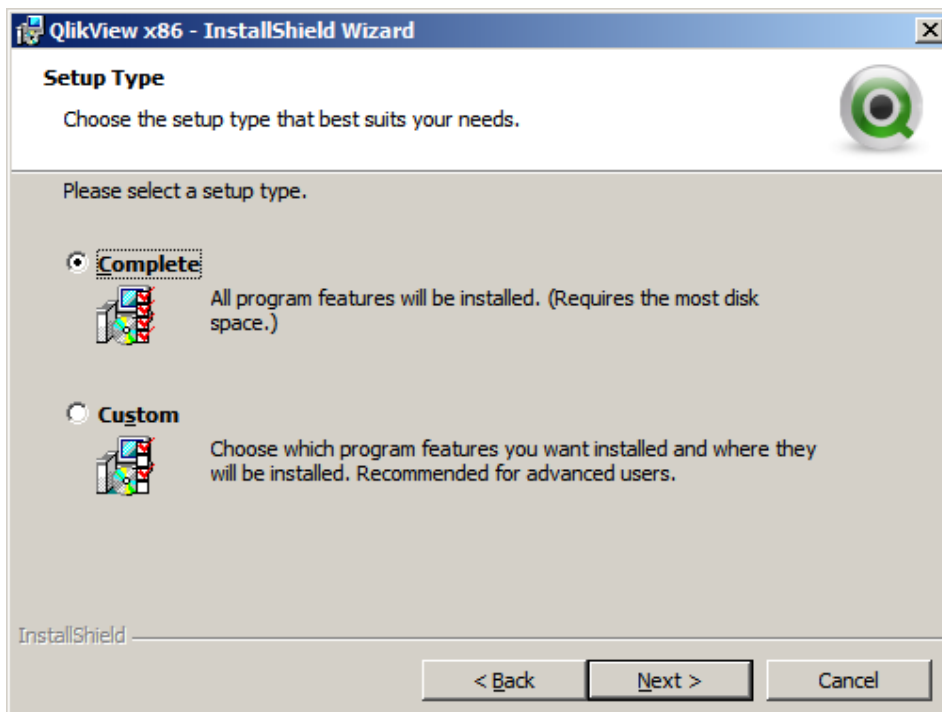
6. Click **Next** to continue. The *Customer Information* dialog displays.



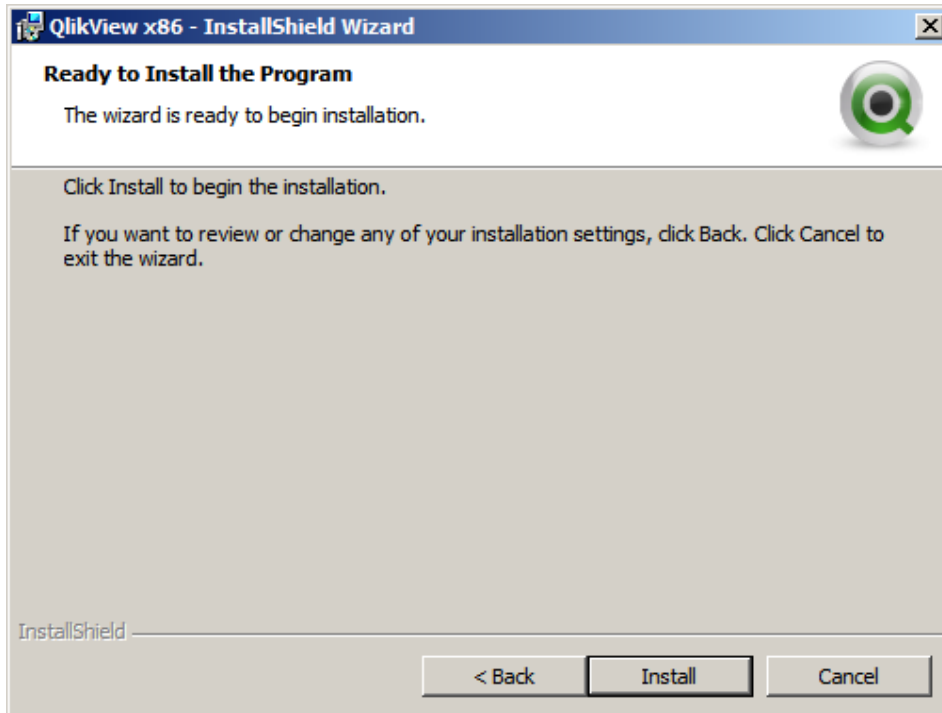
7. In the **Customer Information** dialog you can specify for whom the installation will be personalized. Click **Next** to continue. The *Destination Folder* dialog displays.



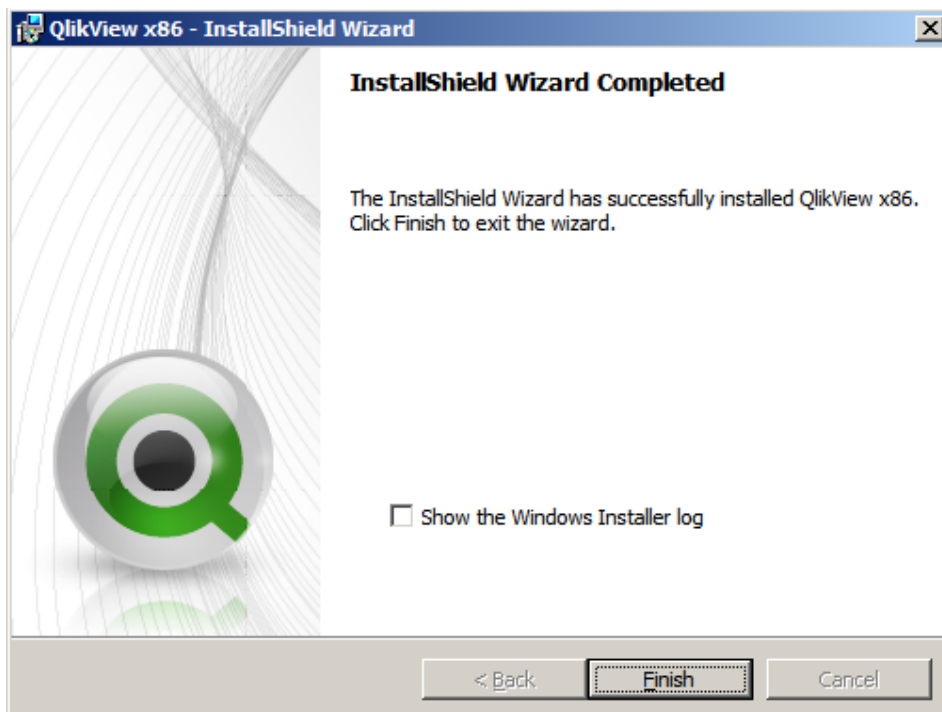
8. If you prefer another destination folder than the default one for the program installation, specify this by clicking **Change** in the *Destination Folder* dialog. Then click **Next** the *Setup Type* dialog opens.



9. Select the **Complete** option to install all program features. Then click **Next** the *Ready to Install the Program* dialog opens.



10. Click **Install** to start the Installation. Wait until the installation is finished. The *Installation Finished* dialog displays confirming the success of the installation. Click **Finish** to exit the Installation Wizard.



INSTALLING THE MI CLIENT MAP VIEWER

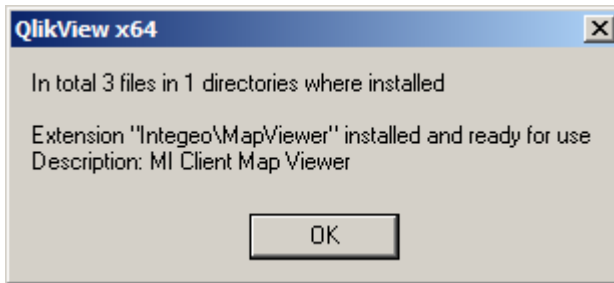
This section will guide you to install the *MI Client Map Viewer* on the QlikView Server. This is required for the *QlikView AccessPoint* to display the map. In this section the *QlikView Desktop* should be installed already on the QlikView Server. To install the Web Page Viewer:

1. Browse to the **<MI Client for QlikView installation path>\tomcat\QV Client Script** folder.

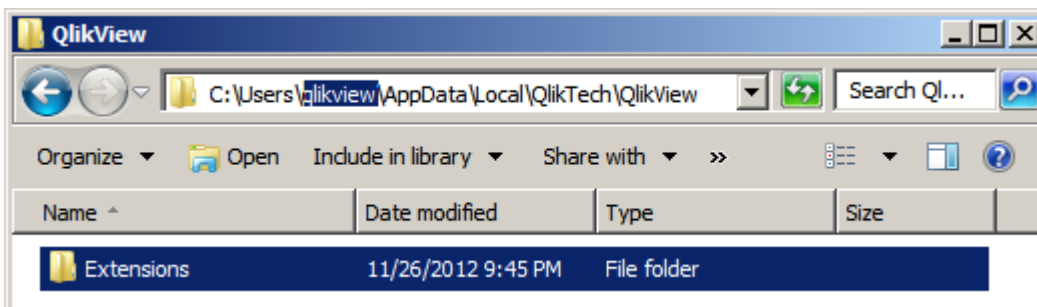


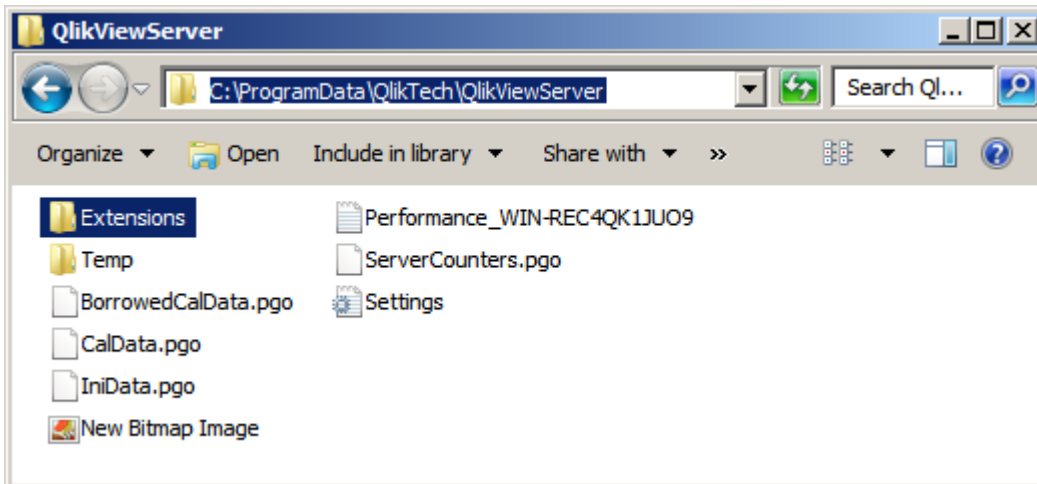
- ✓ **< MI Client for QlikView installation path>** is the folder you supplied on [Destination Folder](#) dialog during the installation of MI Client for QlikView 11 SR2.
- ✓ By default, the QV Client Script folder is at **C:\Program Files\Integeo\MI Client For QlikView 11 SR2\tomcat\QV Client Script**

2. On the *QV Client Script* folder, double click the **Integeo.qar** file to install the *MI Client Map Viewer* extension object. The *QlikView Personal Edition confirmation* dialog displays.



3. Click **OK** to close the *QlikView Personal Edition confirmation* dialog.
4. Copy the **Extension** folder from **C:\Users\<username>\AppData\Local\QlikTech\QlikView** to **C:\ProgramData\QlikTech\QlikViewServer**





- ✓ If you're using Microsoft Server 2003 or older, copy the **Extension** folder from **C:\Documents and Settings\<username>\Local Settings\Application Data\QlikTech\QlikView** to **C:\Documents and Settings\All Users\Application Data\QlikTech\QlikViewServer**
- **<username>** is the username of the user who installed the QlikView Desktop on the QlikView Server.

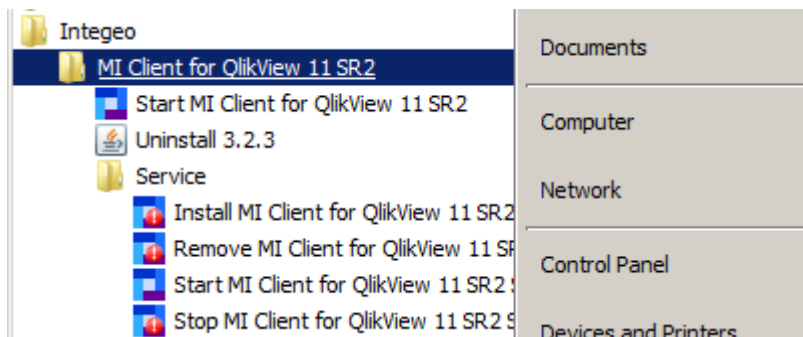
STARTING THE MI CLIENT FOR QLIKVIEW

This will discuss the two ways to start the *MI Client for QlikView* after its successfully installed.

STARTING THE MI CLIENT FOR QLIKVIEW AS A CONSOLE

This is one of two ways to start the *MI Client for QlikView*.

1. From **Start > All Programs > Integeo > MI Client for QlikView 11 SR2**, select **Start MI Client for QlikView 11 SR 2**

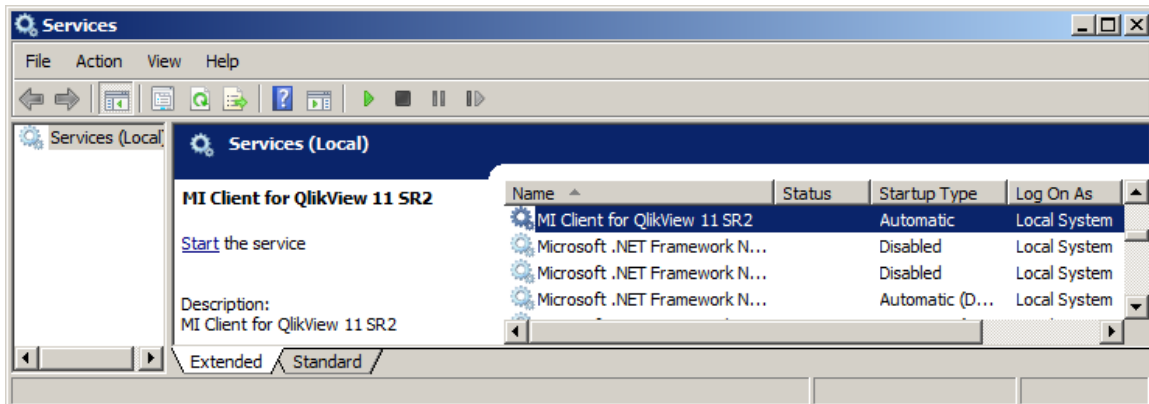


- The exact path may vary depending on the path selected during the *MI Client for QlikView* installation.
- The User starting the *MI Client for QlikView* must have access to the reference QlikView documents in the QlikView server to proceed with the global map settings.
- If using Windows 2008 Server, Window 7 or higher OS, run the client as Administrator.

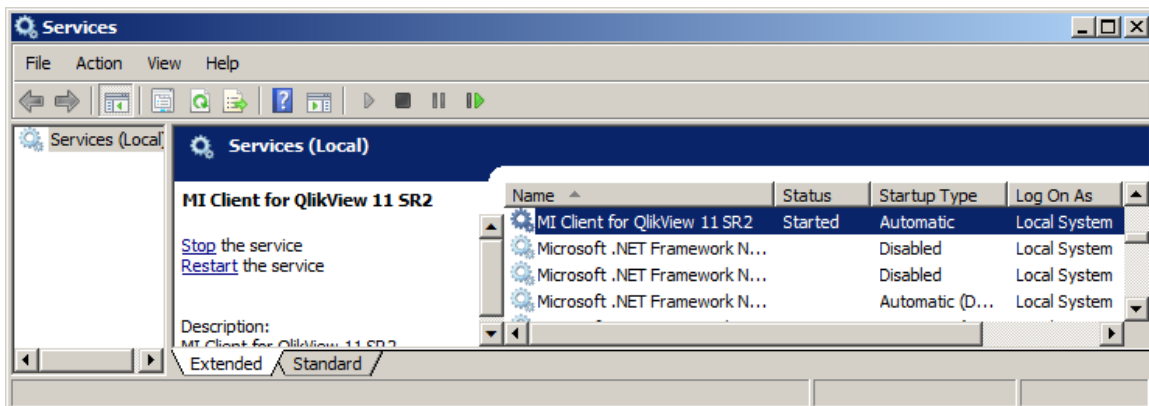
RUNNING THE MI CLIENT FOR QLIKVIEW AS A SERVICE

This is another way to start the *MI Client for QlikView*. To run the MI Client for QlikView as a Service:

1. Go to **Start > All Programs > Integeo > MI Client for QlikView 11 SR2 > Service**, then click **Install MI Client for QlikView 11 SR2 Service**. This will install the *MI Client for QlikView* to the Windows Services



2. To start the Service, go to **Start > All Programs > Integeo > MI Client for QlikView 11 SR2 > Service**, then click **Start MI Client for QlikView 11 SR2 Service**

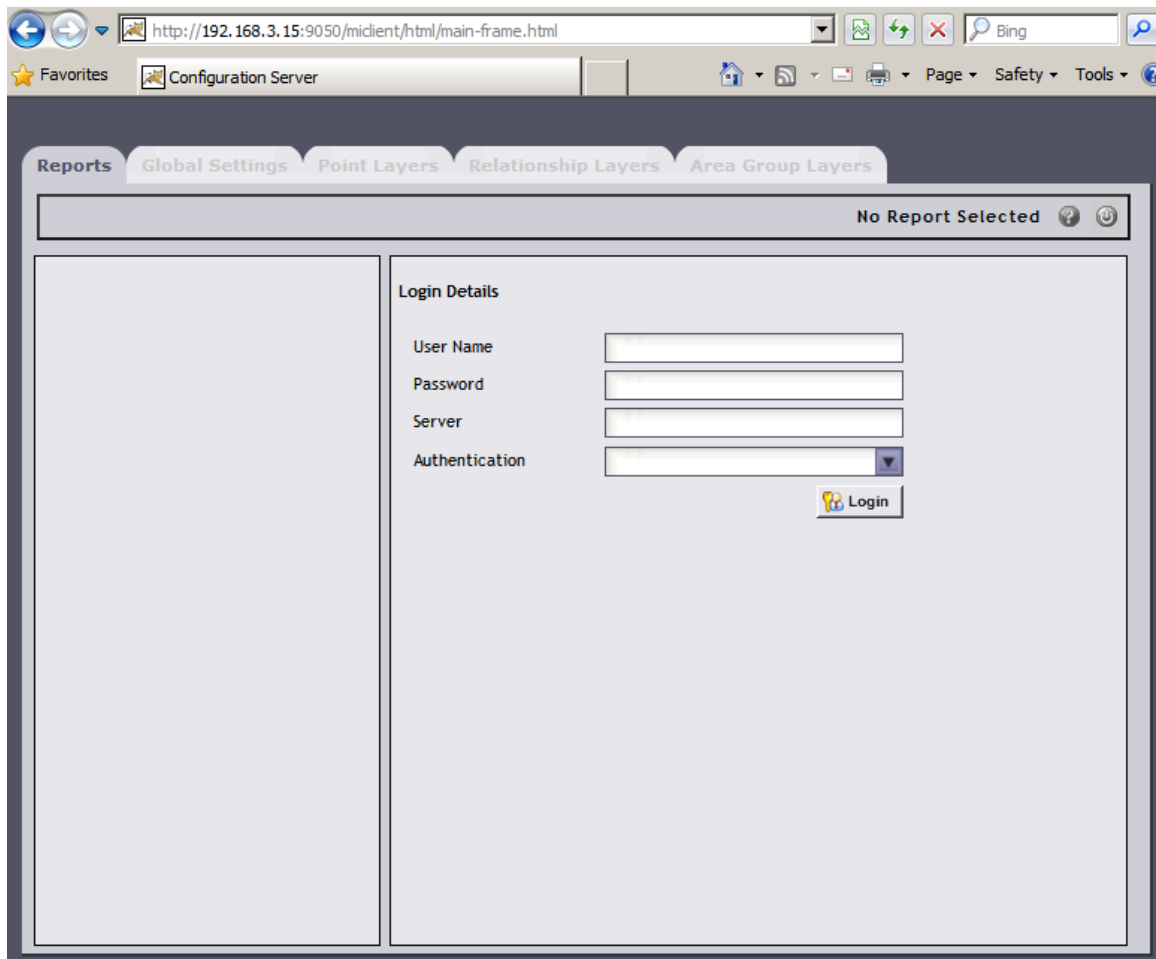


The User running the *MI Client for QlikView* as a service must have access to the reference QlikView documents in the QlikView Server.

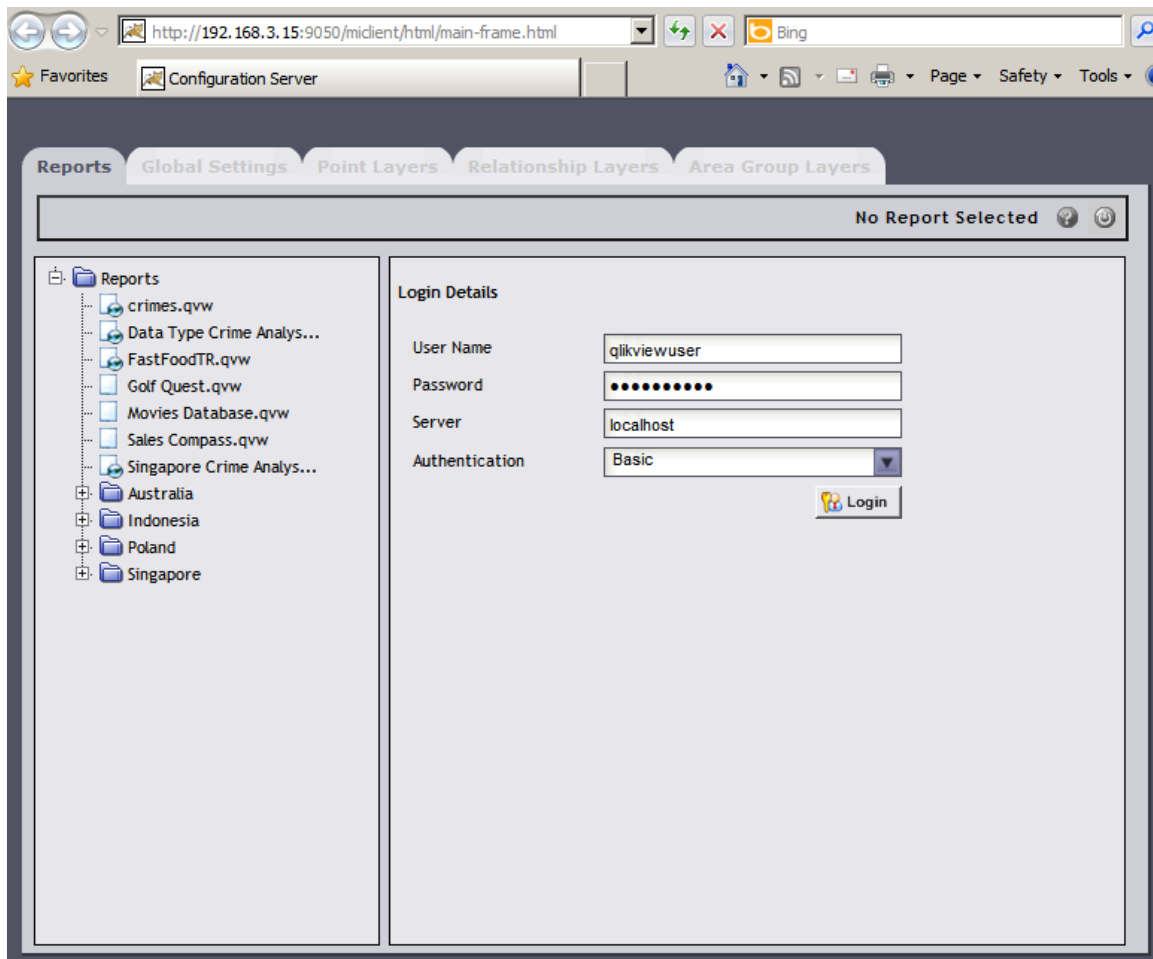
ACCESSING THE MI CLIENT FOR QLIKVIEW CONFIGURATION CONSOLE

After successfully starting the *MI Client for QlikView*, this section will guide you in accessing the configuration console of the MI Client for QlikView. To access the configuration console:

1. Open a web browser, access the URL(<http://<ip address>:<port number>/miclient>). The login page of *MI Client for QlikView Configuration Console* displays.



2. Enter the username and password of the user that has access to the QlikView document together with QlikView Server's IP address or hostname then click **Login** button. If login is successful the **Reports** folder will be displayed on the left panel of the page else it will prompt errors.



Note

- **User Name** - type here the username of the user who has access to the QlikView document on the QlikView Server.
- **Password** - type here the password of the **User Name**
- **Server** - type here the hostname or IP address of the QlikView server.
- ✓ To configure the map layers, refer to the MI Client 3.2.3 for QlikView Development Guide document.
- ✓ To check the common issues encountered during login, see the [Troubleshooting](#) section.

STOPPING THE MI CLIENT FOR QLIKVIEW

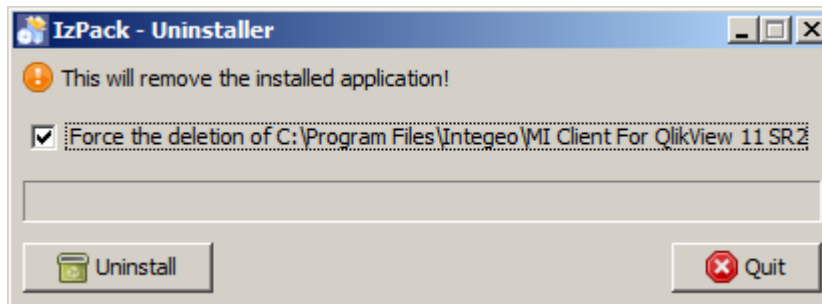
There are two ways to stop the *MI Client for QlikView* based on how it was started.

1. If the MI Client for QlikView was started as a console, just close the console then client will stop.
2. If *MI Client for QlikView* was started as a service, go to **Start > All Programs > Integeo > MI Client for QlikView 11 SR2 > Service**, then click **Stop MI Client for QlikView 11 SR2 Service**.

UNINSTALLING THE MI CLIENT FOR QLIKVIEW

On the installation of the MI Client for QlikView, the Uninstaller is also available. To uninstall the MI Client for QlikView:

1. Remove the **MI Client for QlikView 11 SR2** service from the Windows Services, go to **Start > All Programs > Integeo > MI Client for QlikView 11 SR2 > Service** then click **Remove MI Client for QlikView 11 SR2 Service**.
2. Go to **Start > All Programs > Integeo > MI Client for QlikView 11 SR2**, right click the **Uninstaller 3.2.3** then, select **Run as administrator**. The *Uninstaller* dialog box displays.



3. Tick the **Force deletion of <MI Client installation path>** checkbox.
4. Click the **Uninstall** button. The progress indicator appears on the *Uninstaller* dialog box, then, confirmation message.
5. Click the **Quit** button to exit the *Uninstaller* dialog box.

TROUBLESHOOTING

This section will provide description and solution of the most common issues.

CLIENT LOGIN ISSUES

<i>Problem Description</i>	<i>Solution/s</i>
<p>“Invalid login/password/server combination.”</p> <p>When logging in to the Client Configuration Console, this message immediately displays even when the credentials entered are correct.</p>	<p>Check if the MI QlikView Service is already running.</p>

CLIENT CONNECTION ISSUES

<i>Problem Description</i>	<i>Solution/s</i>
<p>“Lost connection to server.</p> <p>Reconnecting...”</p> <p>This message appears either on the QlikView Client (Desktop/Ajax version) or on the Map Viewer.</p>	<p>Check if the logged in user-id on the QlikView Desktop/Ajax version is not the same user-id that is used by the MI QlikView Service.</p>

GLOBAL SETTINGS ISSUES

<i>Problem Description</i>	<i>Solution/s</i>
<p>Macro parse failed. Functionality was lost</p> <p>qvGenerateMap Error:</p> <p>'ActiveDocument.Variables(...)'</p> <p>This message displays on the QlikView document</p>	<p>Check if the global variables below are declared in the QlikView → Settings → Document Properties → Variables :</p> <ul style="list-style-type: none">▪ MIURL▪ MIConnId▪ MIDocId▪ MIFilter▪ MIQVUser

LAYER ISSUES

<i>Problem Description</i>	<i>Solution/s</i>
The Theme Builder data is insufficient/incomplete when the "Multiple Image/Shape Icon" theme is selected.	<p>Check the test-max-rows and the max-rows properties in the <i>client.properties</i> file. These properties limit the</p> <ol style="list-style-type: none"> 1. number of retrieved records to the <i>BI Server</i> and 2. number of data to be displayed in the Theme Builder respectively. <p>Refer to the <i>client.properties</i> section of <i>MI Client for QlikView 11 SR2 Development Guide</i> for more information.</p>

MAP RENDERING ISSUES

<i>Problem Description</i>	<i>Solution/s</i>
<p>"The page cannot be displayed."</p> <p>This message displays on the Mapping Viewer.</p>	<p>Check if the Map Intelligence Server (and included GIS servers) is already running.</p>
<p>"Failed to generate a map: This report is not yet map-enabled."</p> <p>This message displays on the Mapping Viewer even the map is already configured.</p>	<p>Check if the global variables below in QlikView → Settings → Document Properties → Variables are empty before saving the document:</p> <ul style="list-style-type: none"> ▪ MIURL ▪ MIConnId ▪ MIDocId ▪ MIFilter
<p>"Layer <layer name> had an invalid value <value> in column <column name>"</p>	<p>The report field has an invalid data type (e.g. the field expecting a decimal value but it's data type is an integer). Also, check the data type of the Longitude and Latitude fields of the report referenced by the map. These should not be an integer type. Valid data types are <i>Single</i>, <i>Double</i> or <i>Decimal</i>.</p>
<p>"Macro parse failed. Functionality was lost qvGenerateMap. Error : Permission denied"</p> <p>This message displays on the QlikView document.</p>	<p>Check the user security settings. The following option in QlikView → Settings → User Preferences → Security must be selected:</p> <p>Module (Allow CreateObject and File Access)</p>

APPENDIX MAP INTELLIGENCE MANUALS AND GUIDES

Product documentation for Spectrum Spatial for Business Intelligence, including Map Intelligence SP and the clients are located here:

support.pb.com/spectrum

All documentation can be found under the Solution Guides section of the Product Documentation.